

Title (en)

Water repellent surface treatment with acid activation

Title (de)

Wasserabweisende Oberflächenbehandlung mit Säureaktivierung

Title (fr)

Traitement de surfaces pour les hydrofuger avec une activation par un acide

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Application

EP 97108846 A 19970603

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Abstract (en)

The purpose of the present invention is to provide an article of manufacture including a substrate having a water repellent film thereon of improved durability and to provide a method for forming such a water repellent film on a substrate. The article of manufacture is constructed by activating the substrate with an acid solution and then applying a water repellent composition over the substrate which will form the water repellent film. The remarkable effect of the acid activation is to substantially increase the durability of the water repellency of the film. The acid solution preferably includes hydrochloric acid, sulfuric acid or an organic acid. Substrates may include but are not limited to glass, metal, plastic, enamels and ceramics. The water repellent composition preferably includes a perfluoroalkylalkyl silane.

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IPC 8 full level

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CPC (source: EP KR US)

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